Math Skills Interesting Transcontinental Railroad Facts

PROBLEMS				
If you ho	•		rom accidents or the coltoes at the same ratio, h	
 One mile 	of track contained:			
202	1,750	7,000	14,000	
<u>+150</u>	<u>x 2</u>	5,250	<u>x 2</u>	
rails	ties	+1,750		
		nuts	<u>+100</u>	
		& halts		
	allowed the railroad	(one thouse companies to issue t	and eight hundred and their own bonds and	
• 3 x 5= Summit.	tunnels (were built between S	Sacramento and Promont	ory
•	+ 5 Promontory Summit.	·	nels were built between	
• East Tunnel,	built by the Union I	Pacific, was 772 fee	t long and used 1,064 ke	gs
·			gs per foot were used?	
• 3 x 10 tracks.	+ 3 + 4 =	_ snow sheds were b	ouilt to keep snow off th	e
	nel took two years t ompleted on average	•	1,659 feet long. How man	ıy
meet. At th	• •	2,000/mile how mucl	was chosen by Congress h would a company lose it	

•	The Union Pacific laid 992 miles of track from Omaha, Nebraska to Promontory Summit, Utah. If the lowest rate (\$16,000/mile) for level land east of the Rockies is used, what is the minimum amount the Union Pacific should have been paid?	
•	The golden spikes and special laurel tie were immediately removed and replaced by normal ones after the press show. The last spike was made of $88/5 =$ carat gold and weighed $109 \times 4 =$ grams.	
•	A gold nugget on the end of the spike made rings for President Ulysses S. Grant, Secretary of State William Seward, Governor Stanford and others. If each ring contains at least 4 grams of gold, what was the minimum weight of the gold nugget?	
•	The Central Pacific Railroad paid the voyage from China to California for imported workers; but the workers had to pay the company back out of their wages. A voyage was \$40 by steamship and \$35 by sailboat. Approximately how long would it take a Chinese worker to pay back each voyage with a wage of \$35 per month? (Assume 30 days in a month)	
•	The rails had to lay exactly 56 inches apart. This isfeet inches.	
•	Fishplates are metal plates that bolt together to hold the ends of rails together. How many fishplates would be needed for one mile of track? (Note one fishplate is needed to bind two rails together.)	
•	The message "done" was sent out by telegraph nationwide to announce the completion of the railroad. The Morris Code is: $D - \cdot \cdot O \cdot N - \cdot E \cdot$. How many times did the messenger have to tap the telegraph transmitter?	